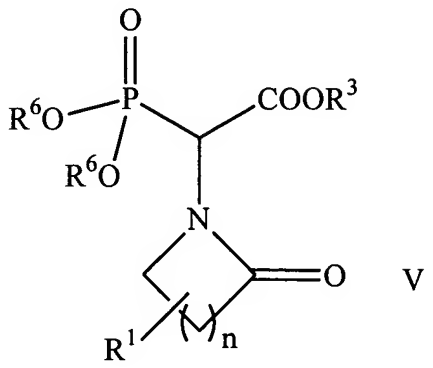
AMENDMENT

Claims 1 – 28 (Canceled)

29. (Original) A compound having the formula V



V

wherein R^1 and R^3 are, independently, substituted or unsubstituted, branched or straight chain C_1 to C_{20} alkyl; substituted or unsubstituted C_3 to C_8 cycloalkyl; substituted or unsubstituted C_6 to C_{20} aryl; or substituted or unsubstituted C_4 to C_{20} heteroaryl, wherein R^1 can also be hydrogen,

R^6 is substituted or unsubstituted, branched or straight chain C_1 to C_{20} alkyl or substituted or unsubstituted C_3 to C_8 cycloalkyl, and

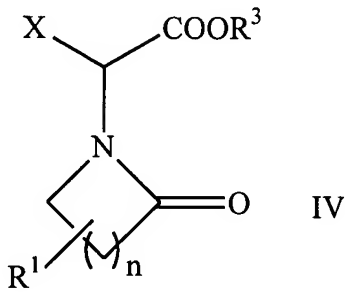
n is from 0 to 5.

30. (Original) The compound of Claim 29, wherein n is 2 and R^1 is hydrogen.

31. (Original) The compound of Claim 30, wherein R^3 is methyl or ethyl.

32. (Original) The compound of Claim 31, wherein R^6 is methyl or ethyl.

33. (Original) A method of producing the compound of Claim 29, comprising reacting a compound having the formula IV



IV

wherein R^1 and R^3 are, independently, substituted or unsubstituted, branched or straight chain C_1 to C_{20} alkyl; substituted or unsubstituted C_3 to C_8 cycloalkyl; substituted or unsubstituted C_6 to C_{20} aryl; or substituted or unsubstituted C_4 to C_{20} heteroaryl, wherein R^1 can also be hydrogen,

X is fluoride, chloride, bromide, or iodide, and

n is from 0 to 5,

with a phosphite having the formula $P(OR^6)_3$, wherein R^6 is substituted or unsubstituted, branched or straight chain C_1 to C_{20} alkyl or substituted or unsubstituted C_3 to C_8 cycloalkyl.

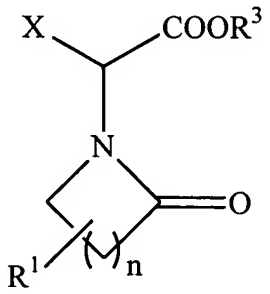
34. (Original) The method of Claim 33, wherein X is chloride or bromide.

35. (Original) The method of Claim 33, wherein R^6 is methyl or ethyl.

36. (Original) The method of Claim 33, wherein the phosphite is present in the

amount from 0.8 to 1.2 equivalents per 1.0 equivalent of the compound having the formula IV.

37. (Original) A method of producing a compound having the formula IV,



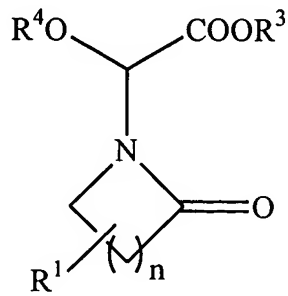
IV

wherein R^1 and R^3 are, independently, substituted or unsubstituted, branched or straight chain C_1 to C_{20} alkyl; substituted or unsubstituted C_3 to C_8 cycloalkyl; substituted or unsubstituted C_6 to C_{20} aryl; or substituted or unsubstituted C_4 to C_{20} heteroaryl, wherein R^1 can also be hydrogen,

X is fluoride, chloride, bromide, or iodide, and

n is from 0 to 5,

comprising reacting a compound having the formula III



III

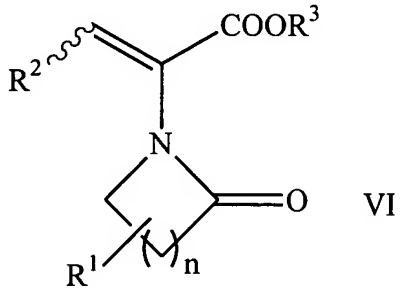
wherein R^1, R^3, and R^4 are, independently, a substituted or unsubstituted, branched or straight chain C_1 to C_{20} alkyl group; a substituted or unsubstituted C_3 to C_8 cycloalkyl group; a substituted or unsubstituted C_6 to C_{20} aryl group; or a substituted or unsubstituted C_4 to C_{20} heteroaryl group, wherein R^1 can also be hydrogen, and

n is from 0 to 5,

with a compound having the formula PX_3, wherein X is fluoro, chloro, bromo, or iodo.

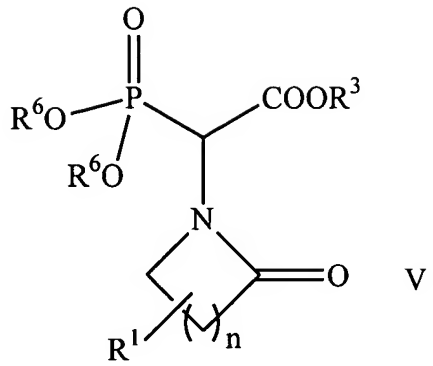
Claims 38 – 41 (Canceled)

42. (Currently Amended) A method for producing ~~the compound of Claim 38,~~ a compound having formula VI



VI

comprising reacting a compound having the formula V



V

~~wherein R^1 and R^3 are, independently, substituted or unsubstituted, branched or straight chain C_1 to C_{20} alkyl; substituted or unsubstituted C_3 to C_8 cycloalkyl; substituted or unsubstituted C_6 to C_{20} aryl; or substituted or unsubstituted C_4 to C_{20} heteroaryl, wherein R^1 can be hydrogen,~~

~~R^6 is substituted or unsubstituted, branched or straight chain C_1 to C_{20} alkyl or substituted or unsubstituted C_3 to C_8 cycloalkyl, and~~

~~n is from 0 to 5,~~

with an aldehyde having the formula $HC(O)R^2$ in the presence of a base, ~~wherein R^2 is hydrogen, substituted or unsubstituted, branched or straight chain C_1 to C_{20} alkyl; substituted or unsubstituted C_3 to C_8 cycloalkyl; substituted or unsubstituted C_6 to C_{20} aryl; or substituted or unsubstituted C_4 to C_{20} heteroaryl in the presence of a base~~ wherein R^1, R^2, and R^3 are, independently, substituted or unsubstituted, branched or straight chain C_1 to C_{20} alkyl; substituted or unsubstituted C_3 to C_8 cycloalkyl; substituted or unsubstituted C_6 to C_{20} aryl; or substituted or unsubstituted C_4 to C_{20} heteroaryl; R^6 is substituted or unsubstituted, branched or straight chain C_1 to C_{20} alkyl or substituted or unsubstituted C_3 to C_8 cycloalkyl; R^1 and R^2 may, independently, be hydrogen; and n is from 0 to 5.

43. (Original) The method of Claim 42, wherein the base comprises an amidine base or a guanidine base.

44. (Original) The method of Claim 42, wherein the base comprises 1,5-diazabicyclo(4.3.0)non-5-ene; 1,8-diazabicyclo(5.4.0)undec-7-ene, or tetramethylguanidine.

45. (Original) The method of Claim 42, wherein the base is present in the amount from 1.0 to 2.0 equivalents per 1.0 equivalent of the compound having the formula V.

46. (Original) The method of Claim 42, wherein the aldehyde is present in the amount from 0.8 to 1.5 equivalents per 1.0 equivalent of the compound having the formula V.

47. (Original) The method of Claim 42, wherein the aldehyde is acetaldehyde.

Claims 48 – 50 (Canceled)

51. (New) The compound of Claim 42 wherein n is 2 and R^1 is hydrogen.

52. (New) The compound of Claim 51 wherein R^2 and R^3 are methyl.

53. (New) The compound of Claim 51 wherein R^2 is methyl and R^3 is ethyl.

54. (New) The method of Claim 52 or 53 wherein R^6 is methyl or ethyl.